

Certificate of Analysis

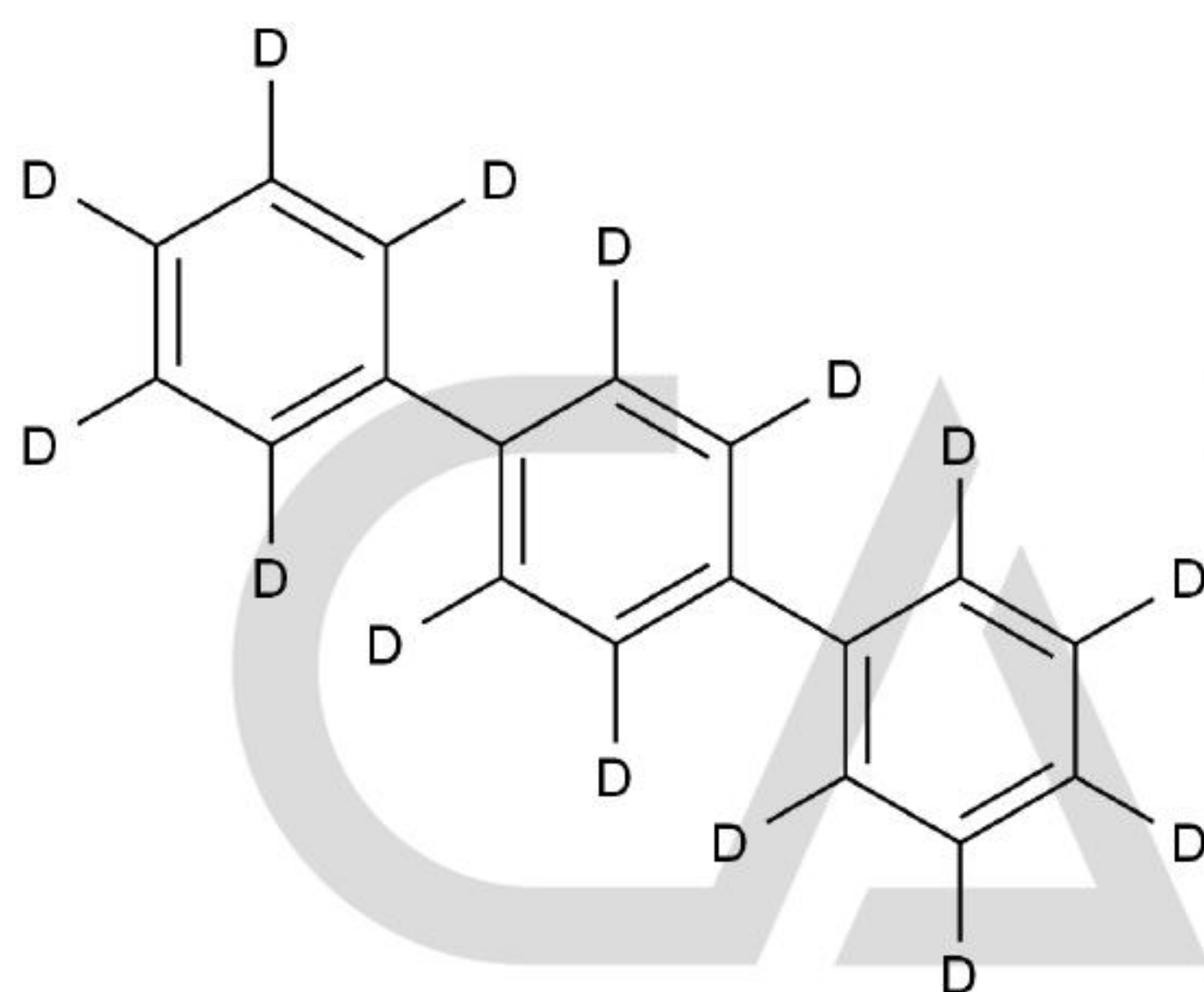
Reference Material & Standard

Product Name:	p-Terphenyl-d14	Catalogue Number:	CCHM701974
Synonyms:	N/A	Lot Number:	0801-RD-0047
CAS Number:	1718-51-0	Expiry Date:	Aug 03, 2025
Molecular Formula:	C ₁₈ D ₁₄	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	244.39	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	GCMS&HNMR	Confirmed
Chemical Purity	HPLC	100.000%
Isotopic Purity		98.4%
Loss on Drying	TGA	0.5396%
Assay		99.5%
Uncertainty		±2.0%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

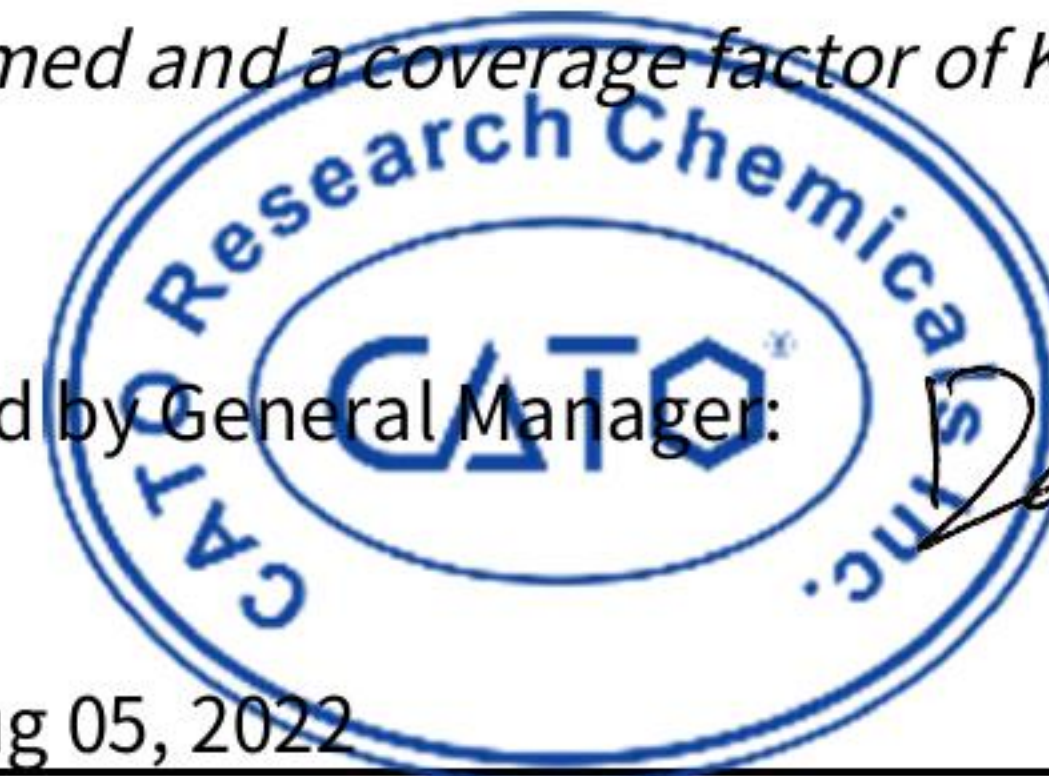
Xenia

Reviewed by:

Cady

Approved by General Manager:

David



Date: Aug 04, 2022

Date: Aug 05, 2022

Date: Aug 05, 2022

Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

Page 1 of 6



Official
WeChat